

## **PRODUCTION DATA REPORT**

✓ Project 1108-13

Supplementary Report Fourteen

to

**FOURDRINIER KRAFT BOARD INSTITUTE, INC.**

May 1, 1956

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

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The production data contained herein represent the production of linerboard as reported by the following Fourdrinier Kraft Board Institute member mills for the first quarter of 1956:

The Chesapeake Corporation of Virginia

Continental Can Company, Inc.

Gaylord Container Corporation

Georgia Kraft Company

International Paper Company

Olin Mathieson Chemical Corp., Forest Products Division

National Container Corporation

North Carolina Pulp Co. & Kieckhefer Container Co.

St. Joe Paper Company

St. Regis Paper Company

Southern Paperboard Corporation

Union Bag and Paper Corporation

West Virginia Pulp and Paper Company

As in previous reports, the data have been tabulated according to (1) total production by quarters and (2) production by grades by quarters.

The total production for the first quarter of 1956 is given in Table I and graphically illustrated in Fig. 1. For purposes of comparison, the production for 1954 and 1955 is also included in Table I. The total



production of all grades is presented graphically in Figure 1 by quarters. The production by grades per quarter may be seen in Table II for the years 1953, 1954, 1955, and 1956, together with the corresponding tonnages for the previous four quarters. In addition, percentage production by grades is given in Table III for the current quarter and the previous four quarters. These figures are based on the total production per quarter computed separately with the miscellaneous figure included and with the miscellaneous figure excluded. The major tonnage grades---namely, 26-lb., 33-lb., 38-lb., 42-lb., 47-lb., 69-lb., 90-lb., and miscellaneous are illustrated in Figures 2 through 9, respectively, together with the production for the previous quarters.

In order to give a better perspective of the above data, the tonnages for the major grades have been plotted on a semi-logarithmic scale (see Fig. 10) for the purpose of comparing the change in production of these grades. A useful measure is the "percentage change" which is defined as the change in production in tons for the present quarter divided by the tonnage level of the previous quarter. The advantage of semi-log graphs in this case is that the "percentage change" may be compared readily even though the magnitude of the tonnage levels may be vastly different. When two lines are parallel (regardless of magnitude), the "percentage change" of these two items is the same. When two lines are not parallel, the one with the greater (steeper) slope has the higher "percentage change."

There are a number of comparisons which may be of interest. Some of these are the following:

1. The figure for total production increased from the previous high of 965.2 thousand tons for the third quarter of 1955 to a new record figure of 972.6 thousand tons for the first quarter of 1956.

2. The tonnages of all major grades for the fourth quarter of 1955 and first quarter of 1956 as shown below. Compared with the fourth quarter production of the corresponding grades, production of the following grades increased during the first quarter: 33 lb., 38 lb., 47 lb., and 69 lb.; whereas production of 26 lb., 42 lb., and 90 lb. decreased.

Grade	1955 Fourth Quarter	1956 First Quarter
26 lb.	88,026	81,469
33 lb.	57,475	57,527
38 lb.	73,506	80,502
42 lb.	437,015	435,893
47 lb.	30,985	31,235
69 lb.	110,613	119,016
90 lb.	55,850	44,297

3. The tonnage of miscellaneous linerboard increased from 76,551 for the fourth quarter of 1955 to 90,436 for the first quarter of 1956.

TABLE I

TOTAL PRODUCTION OF ALL GRADES			
	1954	1955	1956
1st quarter	720,954	886,487	972,607
2nd quarter	770,597	945,631	
3rd quarter	765,742	965,247	
4th quarter	953,434	959,008	
Total	3,110,727	3,756,373	

TABLE II  
TOTAL TONNAGE BY GRADE

	26-lb.	27-lb.	28-lb.	30-lb.	32-lb.	33-lb.	36-lb.	37-lb.	38-lb.	40-lb.	42-lb.	44-lb.
1955												
1st quarter	74,470	--	2,948	2,113	465	47,507	1,251	357	60,999	768	399,826	--
2nd quarter	83,798	--	3,120	2,759	533	42,559	153	--	71,086	--	429,010	--
3rd quarter	76,568	277	2,624	1,885	543	50,552	1,733	--	71,121	7,550	448,500	--
4th quarter	88,026	--	3,460	1,815	621	57,475	468	--	73,506	--	437,015	261
1956												
1st quarter	81,469	424	4,290	45	893	57,527	525	--	80,502	--	435,893	238
	45-lb.	47-lb.	48-lb.	50-lb.	51-lb.	52-lb.	54-lb.	56-lb.	57-lb.	58-lb.	59-lb.	
1955												
1st quarter	13,612	36,952	--	1,431	209	1,307	--	253	204	--	144	
2nd quarter	13,358	43,892	785	836	769	1,555	--	155	--	9	--	
3rd quarter	17,382	37,456	661	3,873	572	760	--	311	--	--	227	
4th quarter	14,613	30,985	744	2,351	623	512	305	159	--	--	--	
1956												
1st quarter	19,463	31,235	--	2,991	370	987	--	176	--	--	--	
	62-lb.	64-lb.	65-lb.	69-lb.	75-lb.	76-lb.	80-lb.	90-lb.	Miscellaneous			
1955												
1st quarter	94	7,577	2,417	94,340	279	--	--	45,291		91,673		
2nd quarter	230	282	423	104,621	221	--	--	50,210		85,267		
3rd quarter	399	1,020	1,476	102,412	--	2,031	--	53,013		82,301		
4th quarter	269	415	1,092	110,613	90	1,189	--	55,850		76,551		
1956												
1st quarter	219	145	1,014	119,016	--	445	7	44,297		90,436		

TABLE III

TOTAL PRODUCTION BY GRADES, PER CENT

	26-lb. Grade		27-lb. Grade		28-lb. Grade		30-lb. Grade		32-lb. Grade		33-lb. Grade		36-lb. Grade		37-lb. Grade		38-lb. Grade	
	With <sup>a</sup>	With- out <sup>b</sup>	With <sup>a</sup>	With- out <sup>b</sup>	With <sup>a</sup>	With- out <sup>b</sup>	With <sup>a</sup>	With- out <sup>b</sup>	With <sup>a</sup>	With- out <sup>b</sup>	With <sup>a</sup>	With- out <sup>b</sup>	With <sup>a</sup>	With- out <sup>b</sup>	With <sup>a</sup>	With- out <sup>b</sup>	With <sup>a</sup>	With- out <sup>b</sup>
1955																		
1st quarter	8.4	9.4	--	--	0.3	0.4	0.2	0.3	0.1	0.1	5.4	6.0	0.1	0.2	c	c	6.9	7.7
2nd quarter	8.9	9.7	--	--	0.3	0.4	0.3	0.3	0.1	0.1	5.6	6.1	c	c	--	--	7.5	8.3
3rd quarter	7.9	8.7	c	c	0.3	0.3	0.2	0.2	0.1	0.1	5.2	5.7	0.2	0.2	--	--	7.4	8.1
4th quarter	9.2	10.0	--	--	0.4	0.4	0.2	0.2	0.1	0.1	6.0	6.5	c	0.1	--	--	7.7	8.3
1956																		
1st quarter	8.4	9.2	c	c	0.4	0.5	c	c	0.1	0.1	5.9	6.5	0.1	0.1	--	--	8.3	9.1
40-lb. Grade																		
With <sup>a</sup>																		
With- out <sup>b</sup>																		
1955																		
1st quarter	0.1	0.1	45.1	50.3	--	--	1.5	1.7	4.2	4.6	--	--	0.2	0.2	c	c	0.1	0.2
2nd quarter	--	--	45.4	49.9	--	--	1.4	1.6	4.6	5.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
3rd quarter	0.8	0.9	46.5	50.8	--	--	1.8	2.0	3.9	4.2	0.1	0.1	0.4	0.4	0.1	0.1	0.1	0.1
4th quarter	--	--	45.6	49.5	c	c	1.5	1.7	3.2	3.5	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1
1956																		
1st quarter	--	--	44.8	49.4	c	c	2.0	2.2	3.2	3.5	--	--	0.3	0.3	c	c	0.1	0.1
54-lb. Grade																		
With <sup>a</sup>																		
With- out <sup>b</sup>																		
1955																		
1st quarter	--	--	c	c	c	c	--	--	c	c	c	c	0.9	1.0	0.3	0.3	10.6	11.9
2nd quarter	--	--	c	c	--	--	c	c	--	--	c	c	c	c	c	c	11.1	12.2
3rd quarter	--	--	c	c	--	--	--	--	c	c	c	c	0.1	0.1	0.2	0.2	10.6	11.6
4th quarter	e	c	c	c	--	--	--	--	--	--	c	c	c	c	0.1	0.1	11.5	12.5
1956																		
1st quarter	--	--	c	c	--	--	--	--	--	--	c	c	c	c	0.1	0.1	12.2	13.5
75-lb. Grade																		
With <sup>a</sup>																		
With- out <sup>b</sup>																		
1955																		
1st quarter	c	c	--	--	--	--	5.1	5.7	10.3	10.3								
2nd quarter	c	c	--	--	--	--	5.3	5.8	9.0	9.0								
3rd quarter	--	--	--	--	--	--	5.5	6.0	5.5	5.5								
4th quarter	c	c	--	--	--	--	5.8	6.3	5.0	5.0								
1956																		
1st quarter	--	--	--	--	--	--	4.0	4.0	4.0	4.0								

a. Percentage based on the total production of all grades including Miscellaneous.

b. Percentage based on the total production of all grades excluding Miscellaneous.

c. Less than a tenth of a per cent after rounding off.



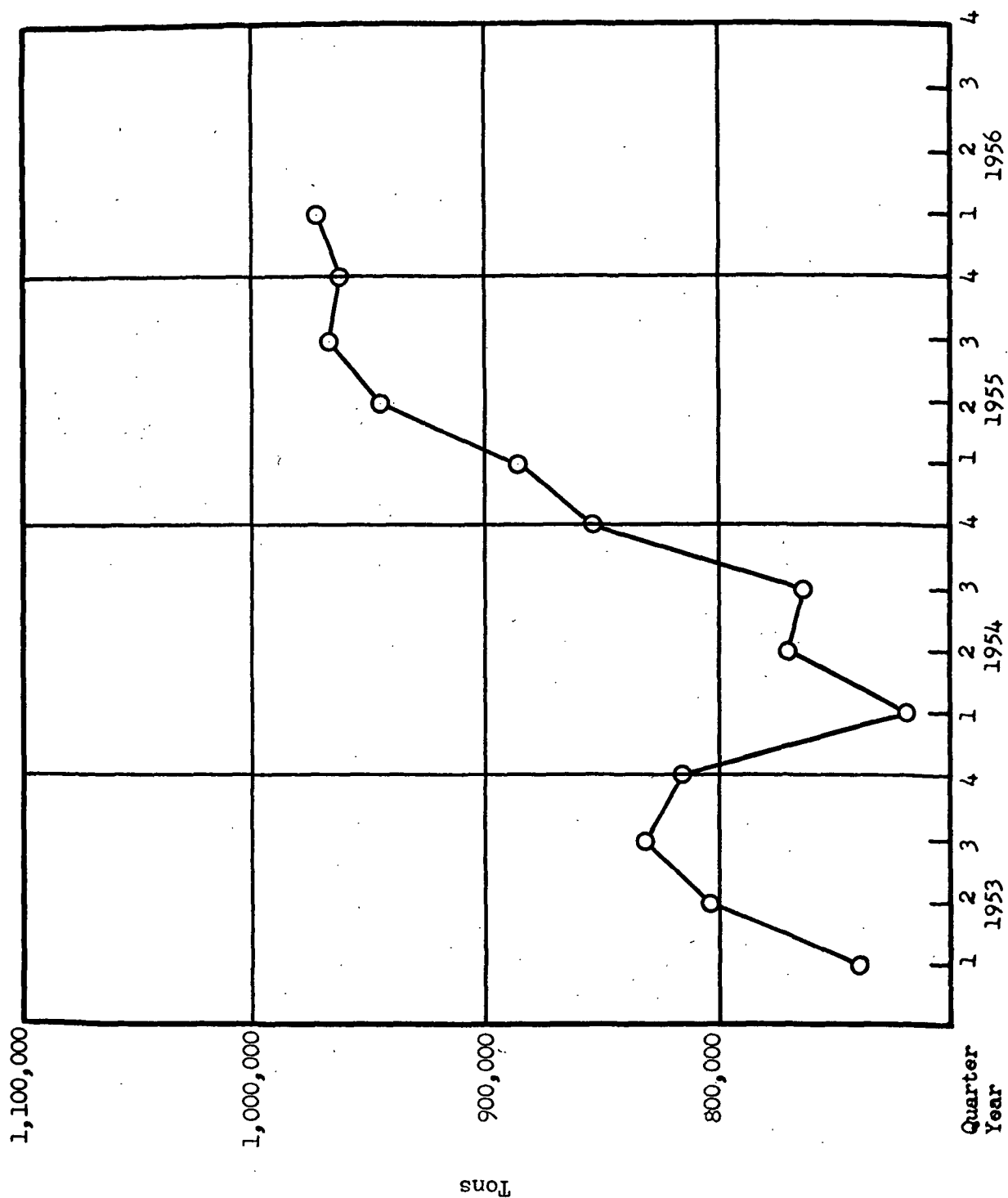


Figure 1. Paper Board Production of All Grades

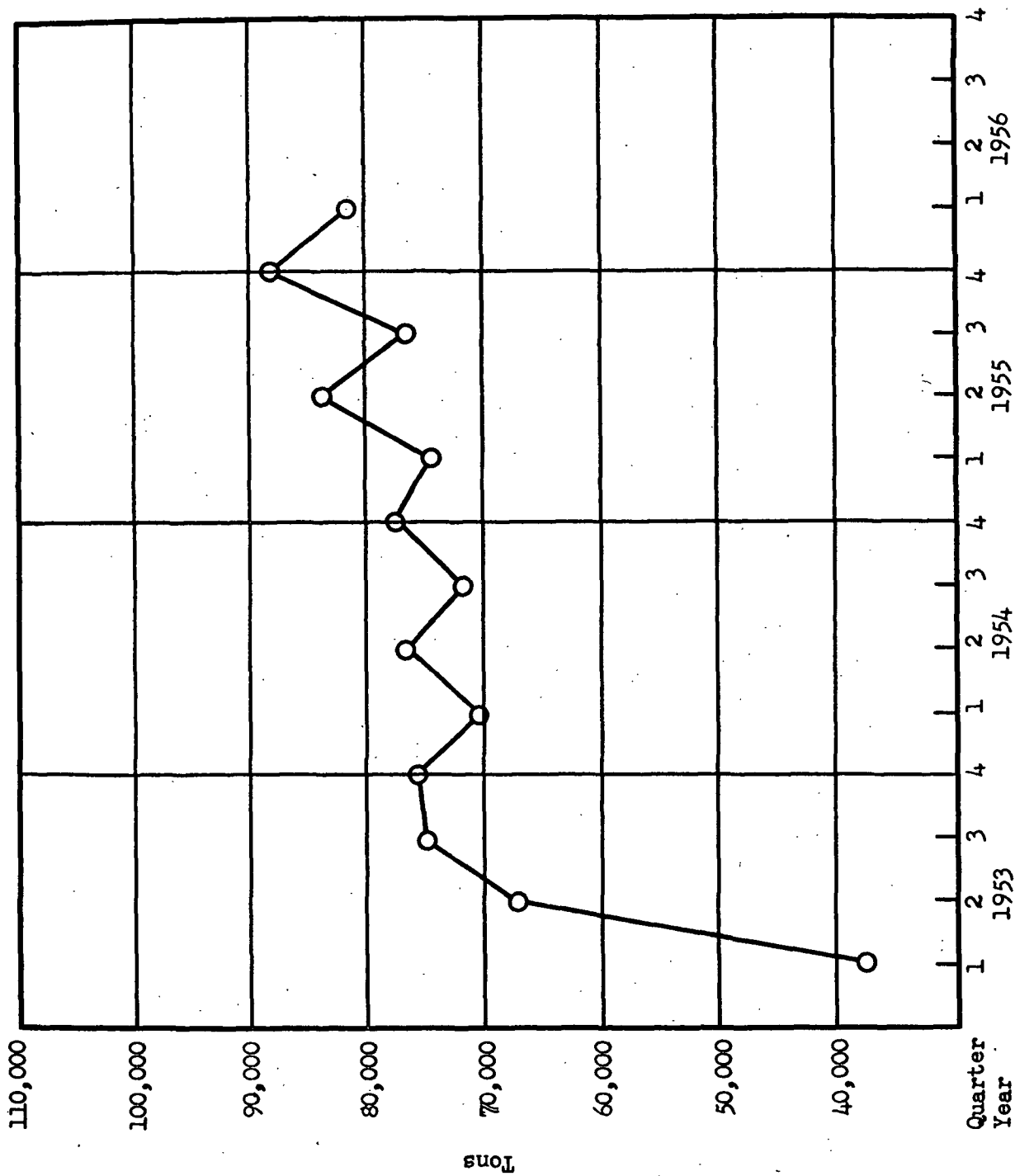


Figure 2. Production, 26-lb.

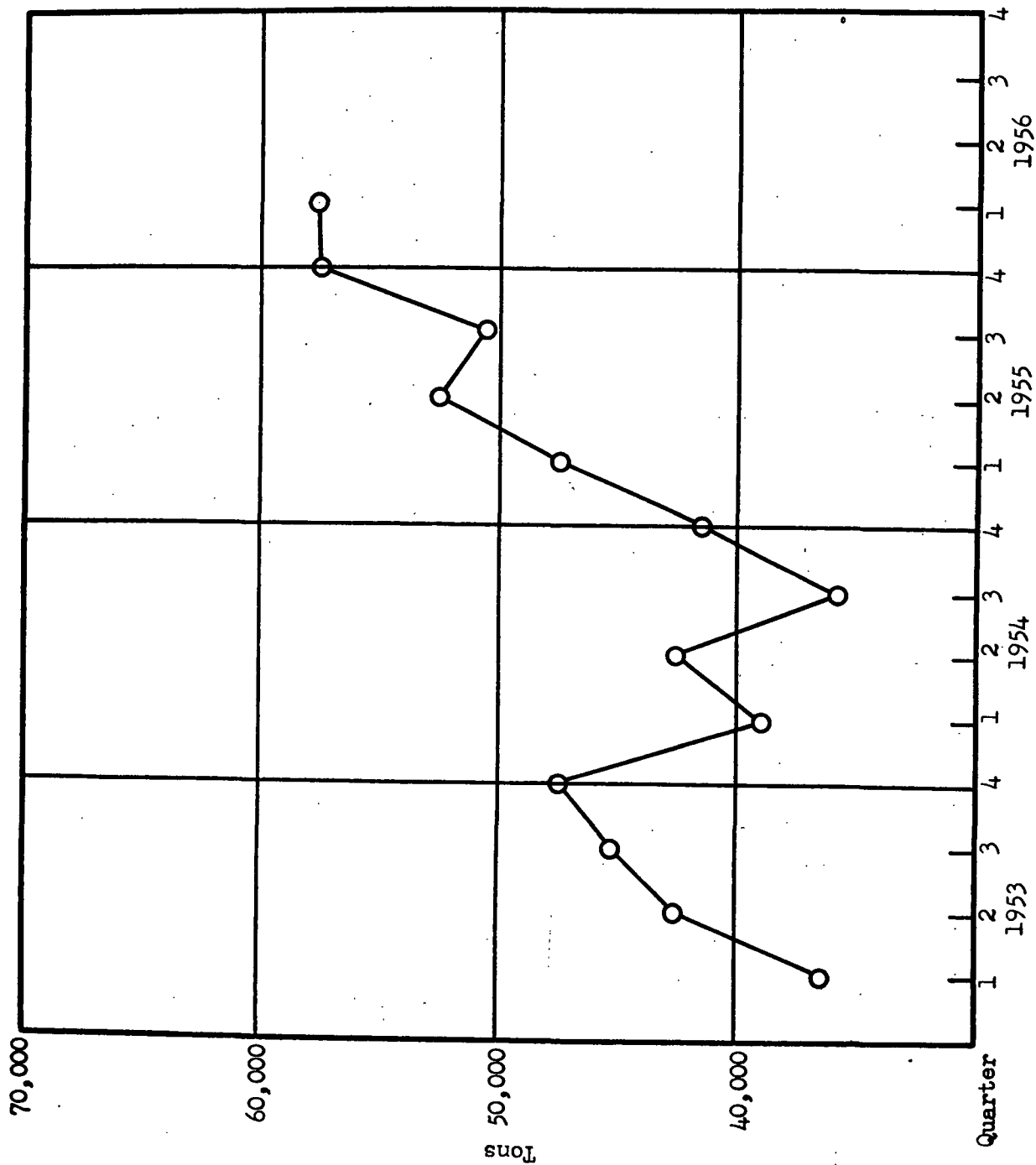


Figure 3. Production, 33-lb.

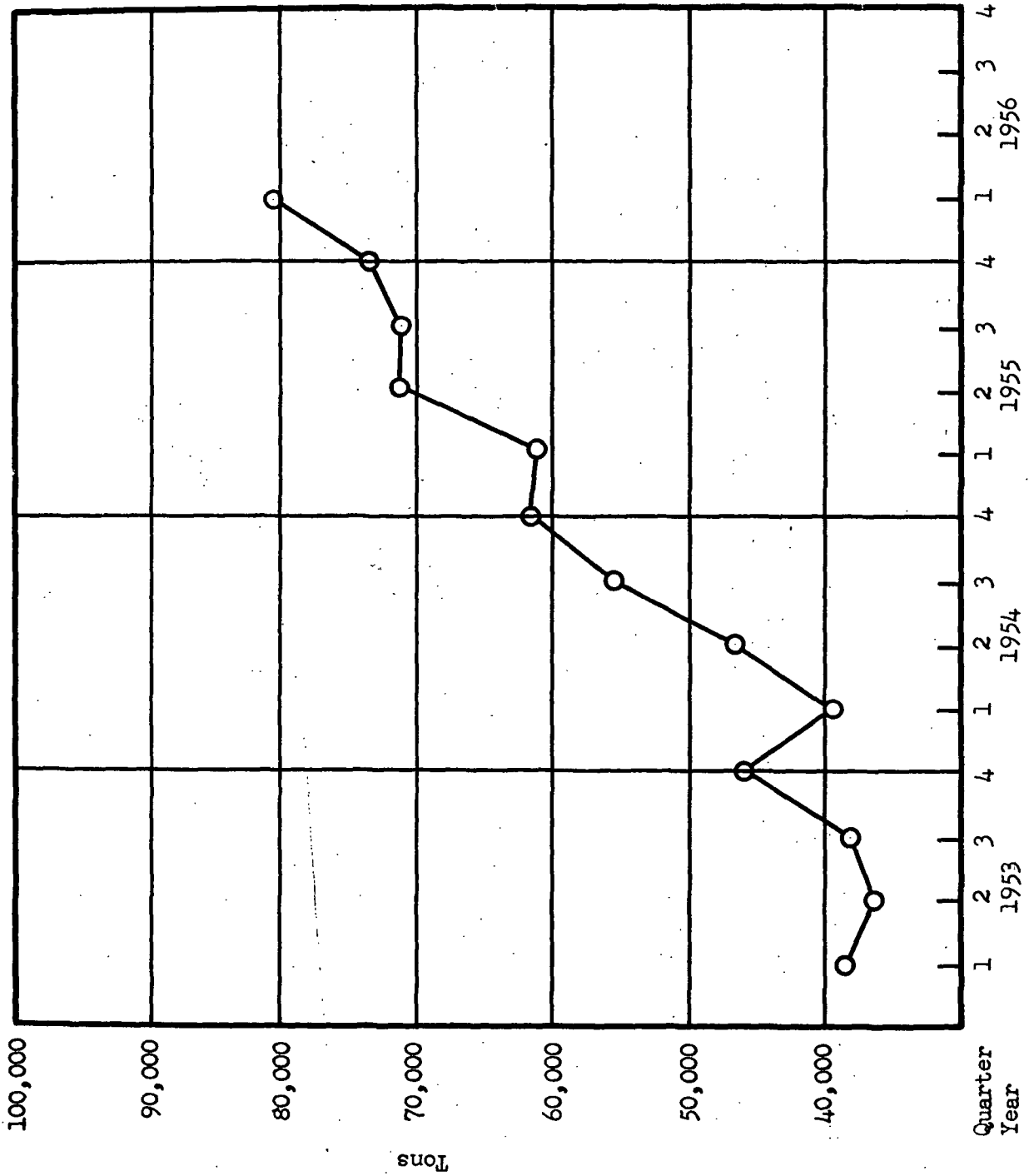


Figure 4. Production, 38-lb.

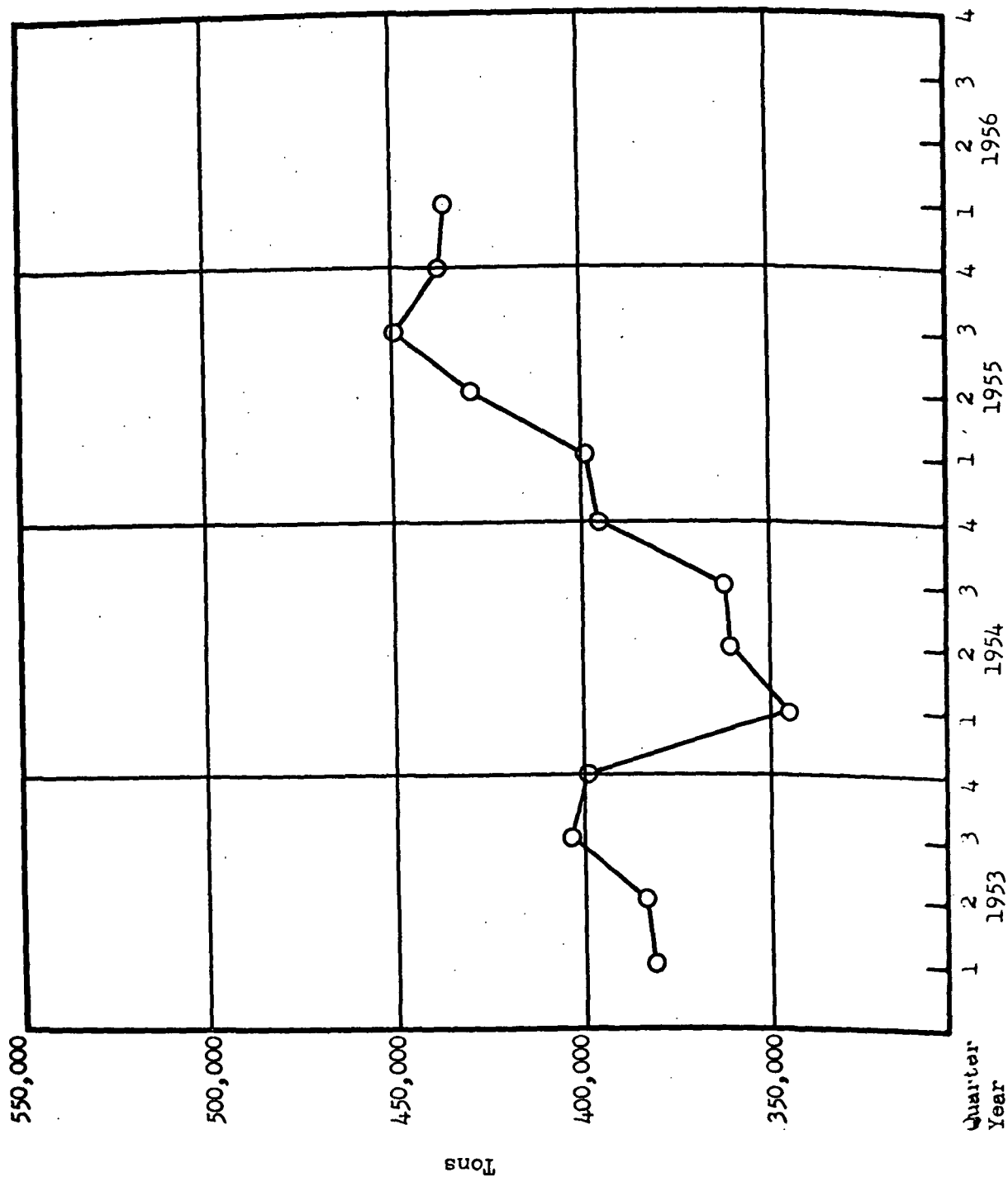


Figure 5. Production, 42-lb.

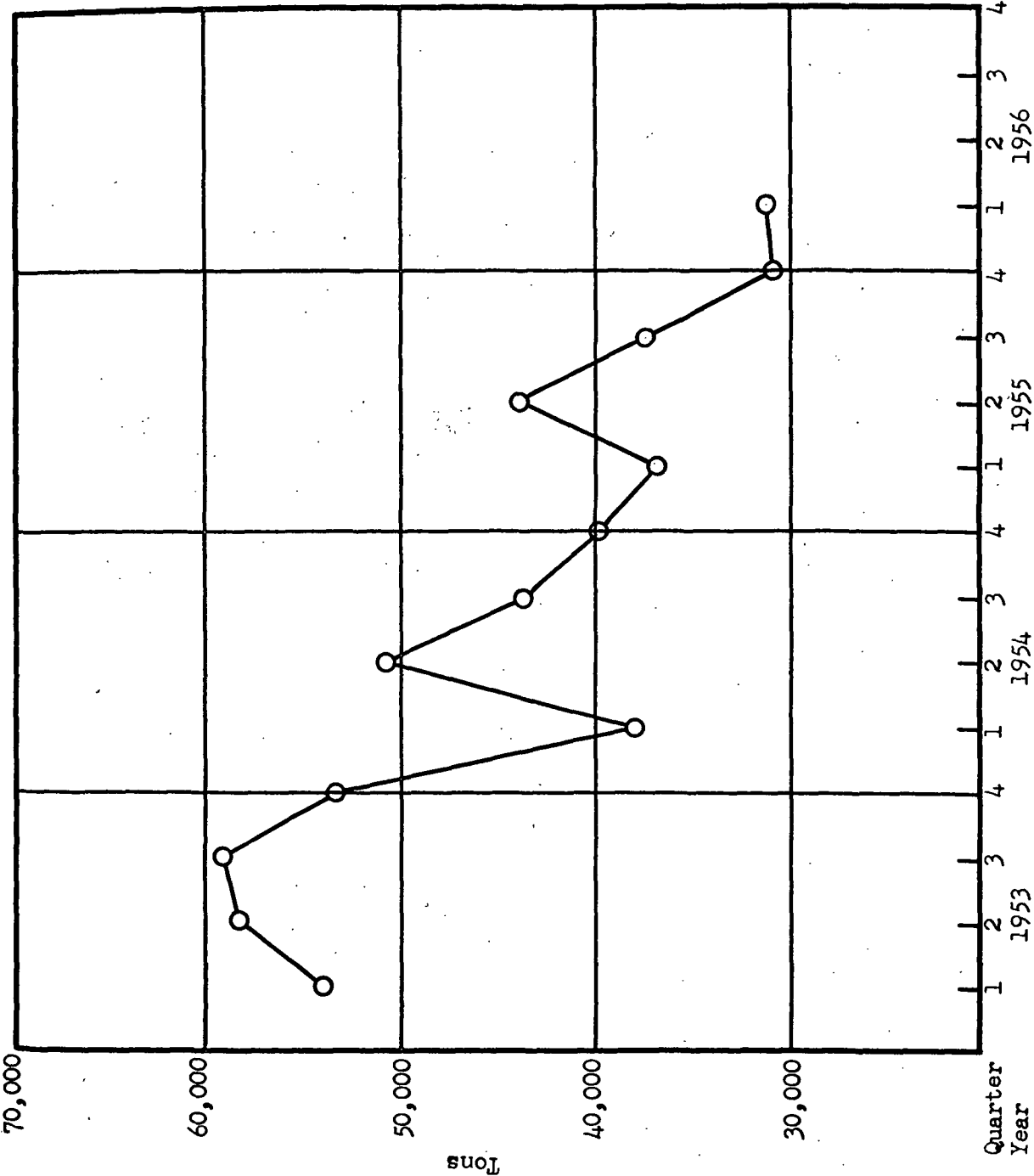


Figure 6. Production, 47-lb.

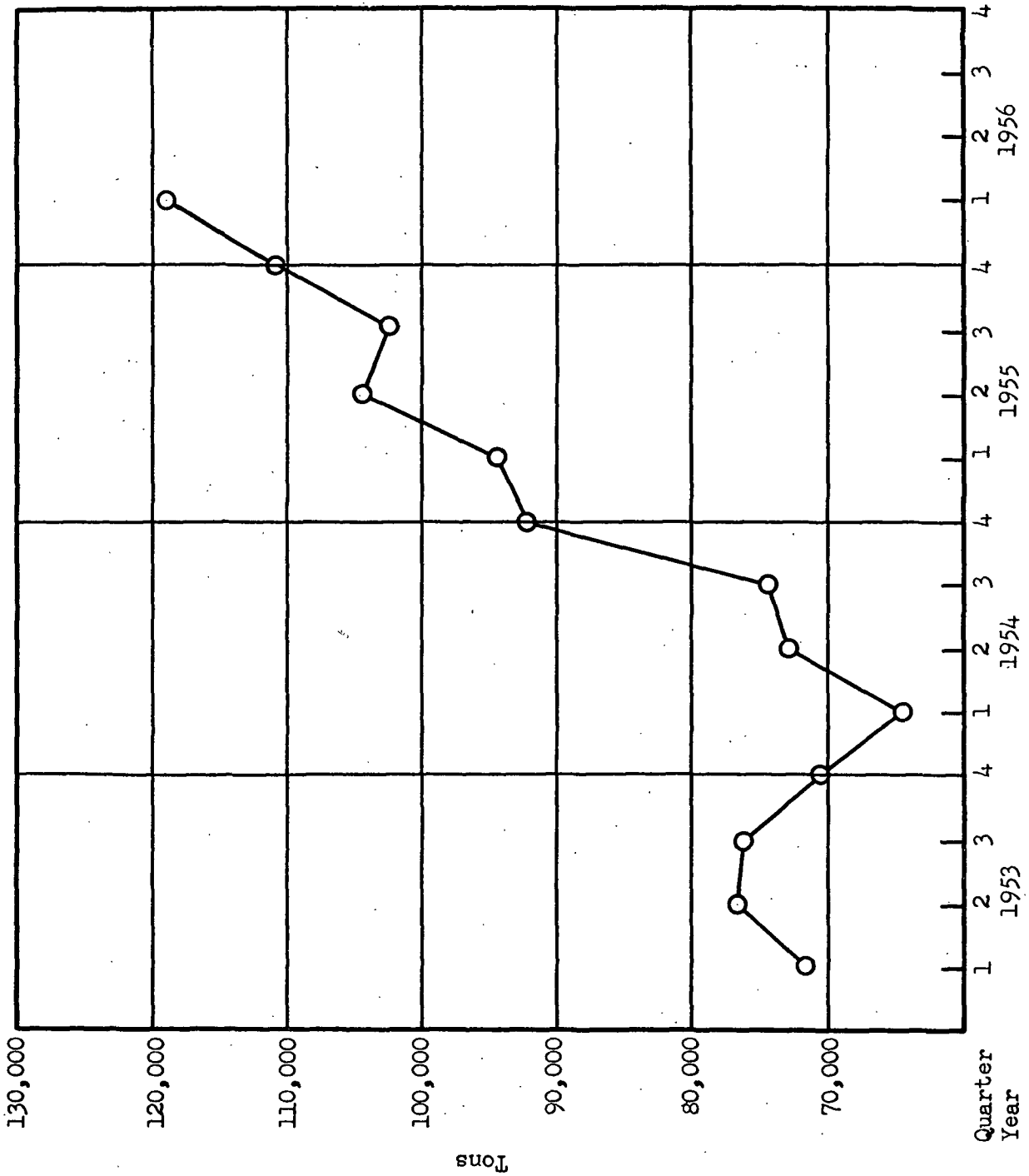


Figure 7. Production, 69-lb.

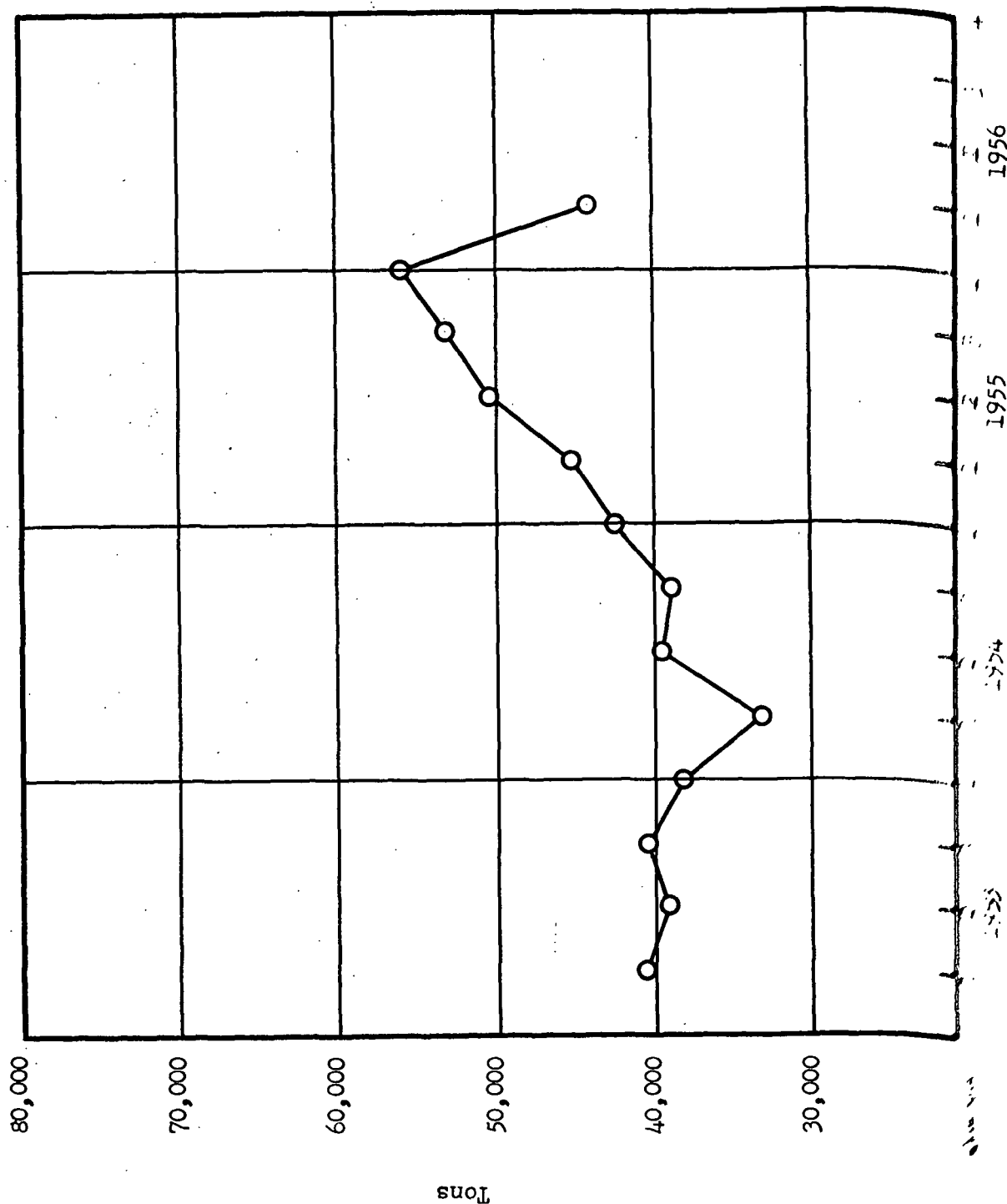


Figure 5. Production, 90-lb.



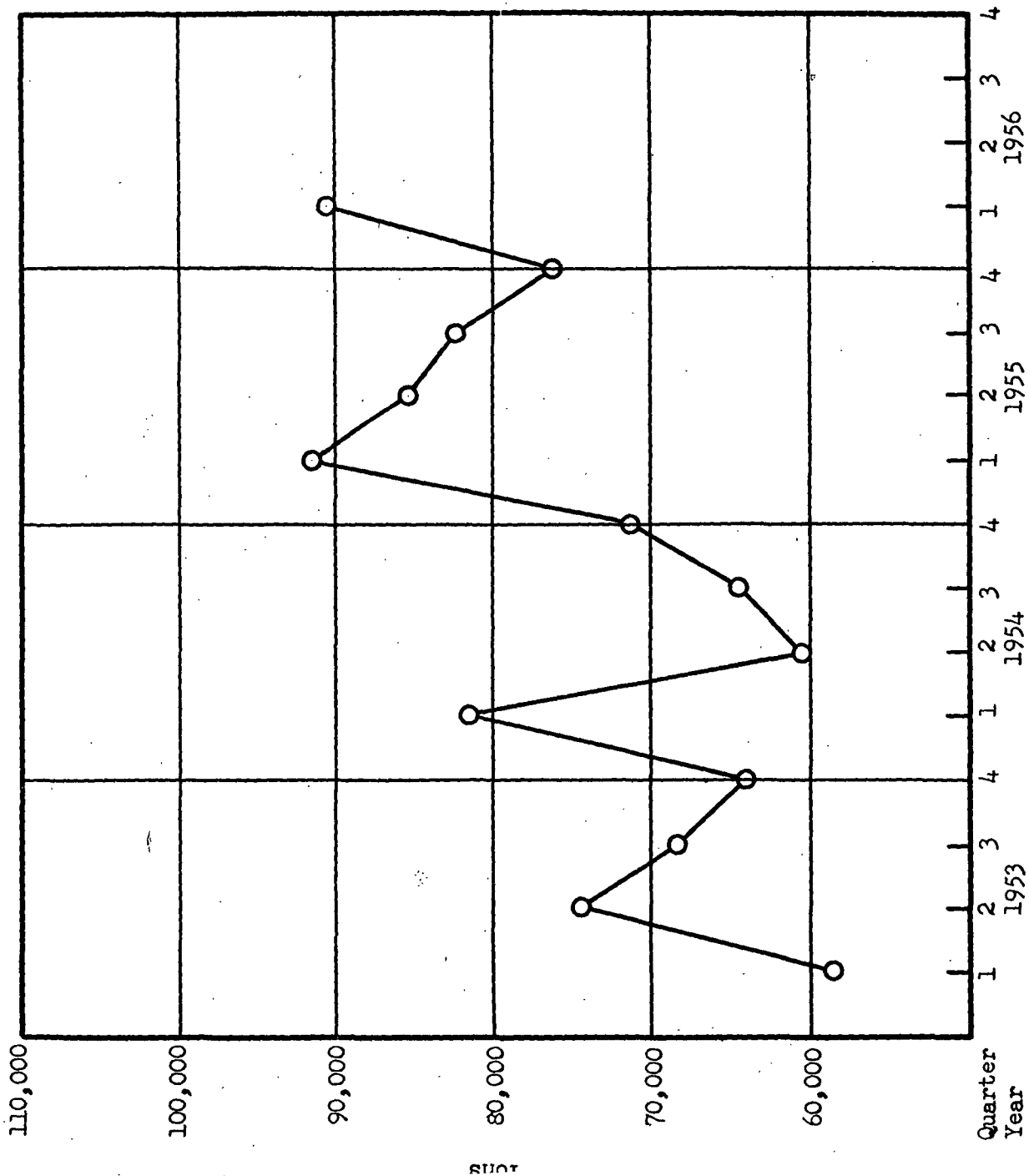


Figure 9. Production, Miscellaneous

Figure 10.

